

**Commonwealth of Kentucky  
Natural Resources and Environmental Protection Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601  
(502) 573-3382**

**STATE ORIGIN  
AIR QUALITY PERMIT**

**Permittee Name:** **SKF USA, Incorporated**  
**Mailing Address:** **1001 Happy Valley Road, Glasgow, KY 42141**

**Source Name:** **SKF USA, Incorporated**  
**Mailing Address:** **Same as above**  
**Source Location:** **Same as above**

**KYEIS ID #:** **21-009-00031**  
**SIC Code:** **3562**

**Regional Office** **Bowling Green Regional Office**  
**1508 Western Avenue**  
**Bowling Green, KY 42104-3356**  
**(270) 746 - 7475**

**County:** **Barren**

**Permit Number:** **S-00-133**  
**Log Number:** **G634/51266**  
**Permit Type:** **Minor, Operating**

**Application**  
**Complete Date:** **August 30, 2000**  
**Issuance Date:** **July 25, 2002**  
**Expiration Date:** **July 25, 2012**

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**John S. Lyons, Director**  
**Division for Air Quality**

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit.

This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify an affected facility without first having submitted a complete application and receiving a permit for the planned activity from the Division, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS****Group Requirements: Group 1 Hub II Area****601 (R11) HBU-601: Hub II Area**

**Description:** *Outer Ring Line:* Parts Washer #1, Induction Hardening/Aqua Quench, Drilling, 3 Turning Machines, Parts Washer #2, 2 Grinding Machines, 2 Honing Machines, Parts Washer #3.

*Inner Ring Line:* 4Grinding Machines, 2 Honing Machines, Parts Washer #4 & #5, Preservative Dip, Maintenance/Cleaning. Each machine on both lines are controlled by a Mist Collector. Materials input: Metal parts 0.8565 tons/hr.

Construction commenced: 1995

**Group Requirements: Group 2 Hub III Area****601 (R11) HBU-601: Hub II Area**

**Description:** *Outer Ring Line:* Parts Washer #1, 2 Turning Machines, Drilling, 2 Grinding Machines, 2 Honing Machines. *Inner Ring Line:* Parts Washer #2, Induction Hardening/Aqua Quench, 3 Turning Machines, Drilling, 2 Grinding Machines, 2 Honing Machines, 3 – 30 gallon Washers, Preservative Dip, Maintenance/Cleaning. Each machine on both lines are controlled by a Mist Collector. Materials input: Metal parts 1.7125 tons/hr.

Construction commenced: 1995

**APPLICABLE REGULATIONS:**

401 KAR 59:010, New process operations

**1. Operating Limitations:**

None.

**2. Emission Limitations:**

1. Visible emissions shall not equal or exceed 20% opacity, as determined by Reference Method 9 of Appendix A to 40 CFR 60, filed by reference in 401 KAR 59:010.
2. Hourly particulate emissions, as determined by Reference Method 5 of Appendix A to 40 CFR 60, shall not exceed the limit calculated by the following equation:

$$E = 3.59 \times P^{0.62}$$

Where E is in pounds/hour, and P is the process weight rate (total weight of all materials introduced into the emission unit, which may cause particulate matter emissions) in tons/hour.

**COMPLIANCE DEMONSTRATION:**

1. To provide reasonable assurance that the visible emission limitations are being met, the permittee shall perform the following:
  - a. Qualitative observations of the visible emissions shall be made monthly and a log of the observations shall be maintained to include the following:

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**COMPLIANCE DEMONSTRATION: (continued)**

- i. Any air emissions (except for water vapor) which were visible from stack or vent.
    - ii. All emission points from which visible emissions occurred, and
    - iii. Whether the visible emissions were normal for the process.
  - b. If visible emissions from the stack are perceived or believed to exceed the applicable standard, the permittee shall initiate an inspection, and make any necessary repairs.
2. To provide reasonable assurance that the particulate matter emission limitations are being met, the permittee shall monitor the amounts and types of raw materials processed. Particulate emissions from each emission point shall be calculated as follows:
- Particulate emissions, in pounds/hour =  $\Sigma$  [(Maximum process weight rate of each raw material, in tons/hour) x (KYEIS particulate emission factor for the raw material, in pounds/ton) x (1 – particulate control efficiency, in % / 100)]
- Particulate emissions, in tons/year = (Particulate emissions, in pounds/hour) x (Annual hours of operation/year) / (2000 pounds/ton)

**3. Testing Requirements:**

None.

**4. Monitoring Requirements:**

The permittee shall monitor the daily hours of operation and the total daily input of all raw materials of each process unit at each emission point.

**5. Recordkeeping Requirements:**

Daily records shall be maintained of the total input of all raw materials and hours of operation of each process unit at each emission point.

**6. Reporting Requirements:**

Any exceedance of the opacity or particulate emission limits as stated in this permit shall be reported to the Division as specified in the General Conditions Section C.1.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**Emission Point: 10.5 MMBtu/ hr Boiler**

**601 (S10) BLR-701: Boiler**

**Description:** Maximum capacity boiler: 10.5 MMBtu/hr.  
Construction commenced: 1995

**APPLICABLE REGULATIONS:**

401 KAR 59:015, New indirect heat exchangers

**1. Operating Limitations:**

None

**2. Emission Limitations:**

1. Emission of particulate matter from the boiler shall not exceed 0.56 lb/MMBtu or 3.92 lbs/hr. [401 KAR 59:015, Section 4(1)(a)]
2. Emission of sulfur dioxide from each boiler shall not exceed 3.0 lb/MMBtu or 21.0 lbs/hr. [401 KAR 59:015, Section 5(1)(a)]
3. The opacity of visible emissions shall not exceed twenty (20) percent. [401 KAR 59:015, Section 4(2)]

**COMPLIANCE DEMONSTRATION:**

1. Particulate emission rate in lbs/hr = [Hourly rated heat input capacity in MMcf x Emission factor in lb/MMcf]
2. Sulfur dioxide emission rate in lbs/hr = [Hourly rated heat input capacity in MMcf x Emission factor in lb/MMcf]
3. The opacity shall be determined by Reference Method 9 of Appendix A to 40 CFR 60.

**3. Testing Requirements:**

None.

**4. Monitoring Requirements:**

The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack/vent on a monthly basis and maintain a log of observation. The log shall note:

- a) whether any air emissions (except for water vapor) were visible from the vent/stack,
- b) all emission points from which each visible emission occurred, and
- c) whether the visible emissions were normal for the process.

**5. Recordkeeping Requirements:**

Daily records shall be maintained of the total input of all raw materials and hours of operation of each process unit at each emission point.

**6. Reporting Requirements:**

Any exceedance of the opacity or particulate emission limits as stated in this permit shall be reported to the Division as specified in the General Conditions Section C.1.

## SECTION C - GENERAL CONDITIONS

### A. Administrative Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.
2. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issuance. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:040, Section 15].
3. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1a, 11].
4. This permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1a, 4,5].
5. This permit does not convey property rights or exclusive privileges [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1a, 8].
6. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].
7. All previously issued construction and operating permits are hereby subsumed into this permit.

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

### **B. Recordkeeping Requirements**

1. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f)].
2. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official [401 KAR 52:040, Section 21].

### **C. Reporting Requirements**

1. a. In accordance with the provisions of 401 KAR 50:055, Section 1 the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other approved electronic media) and shall cause written notice upon request.
- b. The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by 1.a above) , the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1b,V, 3].
2. The permittee shall furnish information requested by the cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1a, 6].
3. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.

## **SECTION C - GENERAL CONDITIONS (CONTINUED)**

3. The summary reports are due January 30th and July 30th of each year. All reports shall be certified by a responsible official. All deviations from permit requirements shall be clearly identified in the reports [401 KAR 52:040, Section 21].

### **D. Inspections**

1. In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit;
  - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
  - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

### **E. Emergencies/Enforcement Provisions**

1. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Cabinet Provisions and Procedures for Issuing State-Origin Permits, Section 1a, 3].
2. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - a. An emergency occurred and the permittee can identify the cause of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
3. Emergency provisions listed in General Condition E.2 are in addition to any emergency or upset provision contained in an applicable requirement.



## SECTION C - GENERAL CONDITIONS (CONTINUED)

4. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

### F. Compliance

1. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:

Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.

2. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.
  - f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality  
Bowling Green Regional Office  
1508 Western Avenue  
Bowling Green, KY 42104-3356

Division for Air Quality  
Central Files  
803 Schenkel Lane  
Frankfort, KY 40601-1403

3. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
  - (a) Applicable requirements that are included and specifically identified in this permit; or
  - (b) Non-applicable requirements expressly identified in this permit.